

Figure 1

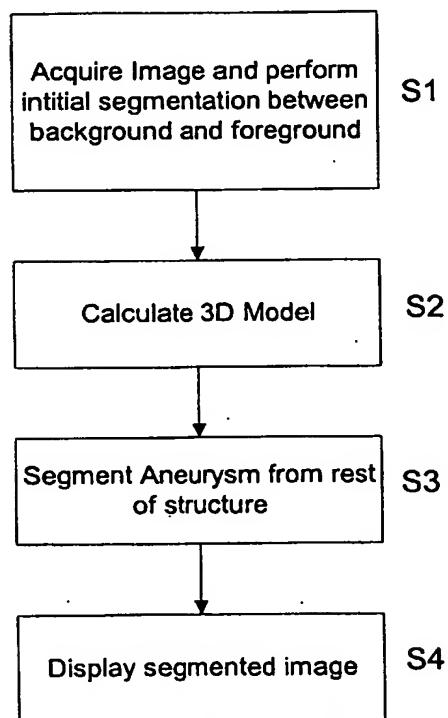


Figure 2

BEST AVAILABLE COPY



Figure 3: a.) 3-D model of an aneurysm and adjoining vessels. b.) Mesh computed for the 3-D model.

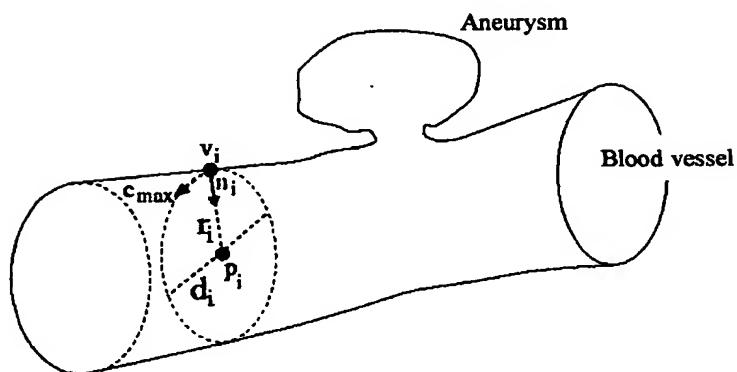


Figure 4: Local shape descriptors, vessel radius and the perpendicular diameter.

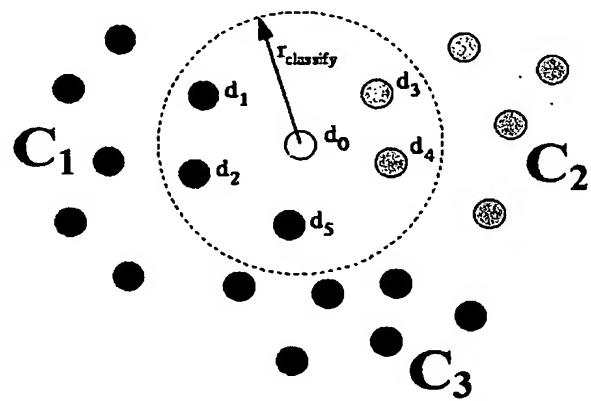


Figure 5: Point and neighbourhood.

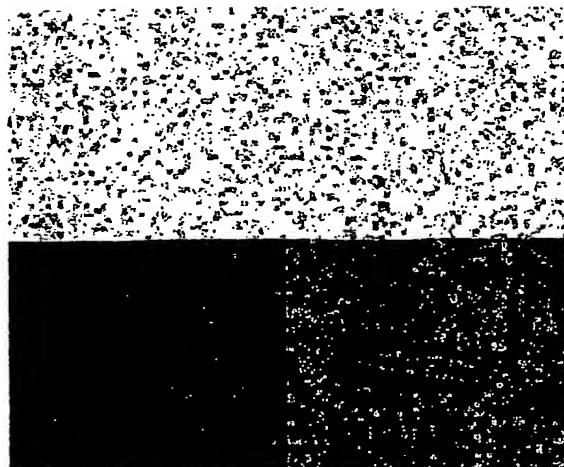


Figure 6: Synthetic data containing three groups.

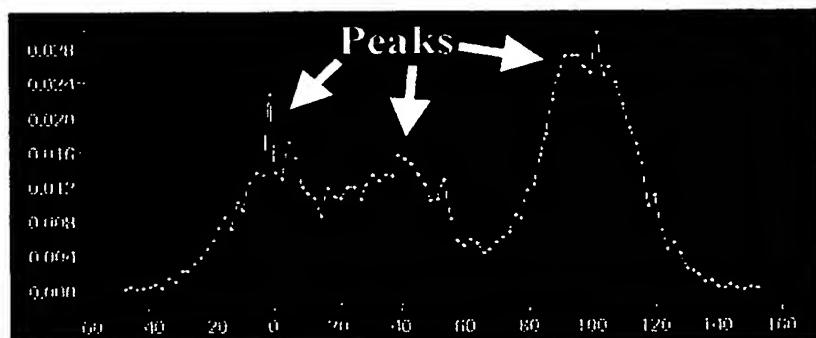


Figure 7: Initial Probability $P(v_j | d_j \in C_0)$.

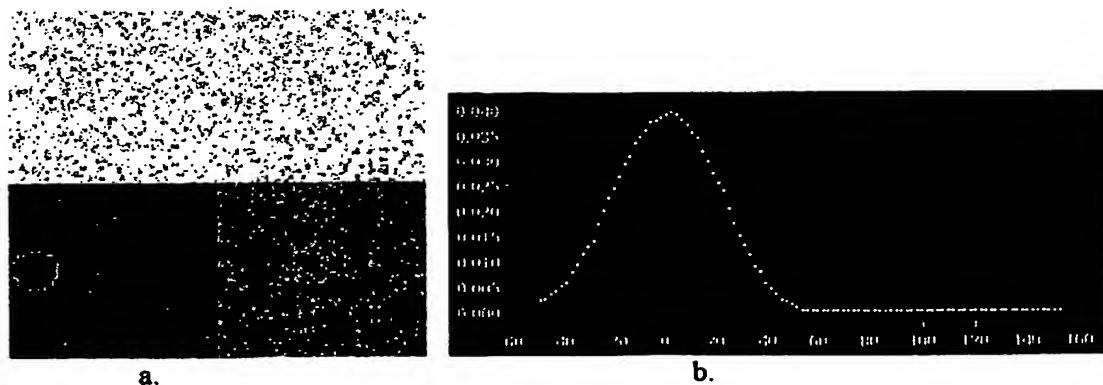


Figure 8: a.) Seed for Class C_1 . b.) Initial probability for $P(v_j | d_j \in C_1)$.

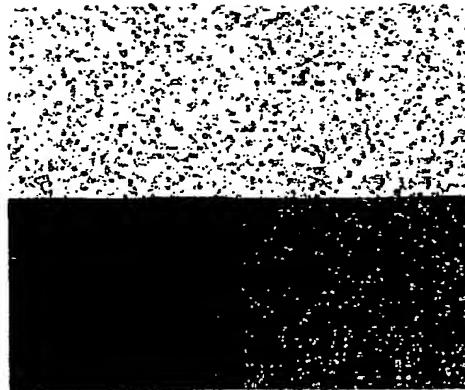


Figure 9: Classification after C_1 converges.

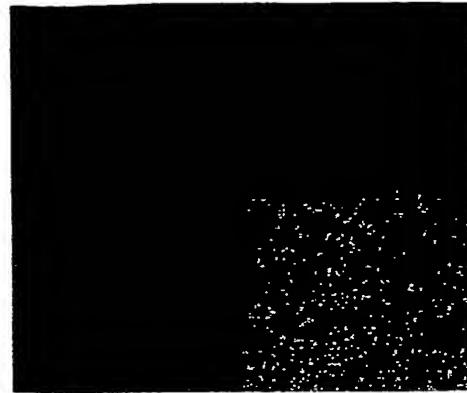


Figure 10: Classification after C_2 converges.

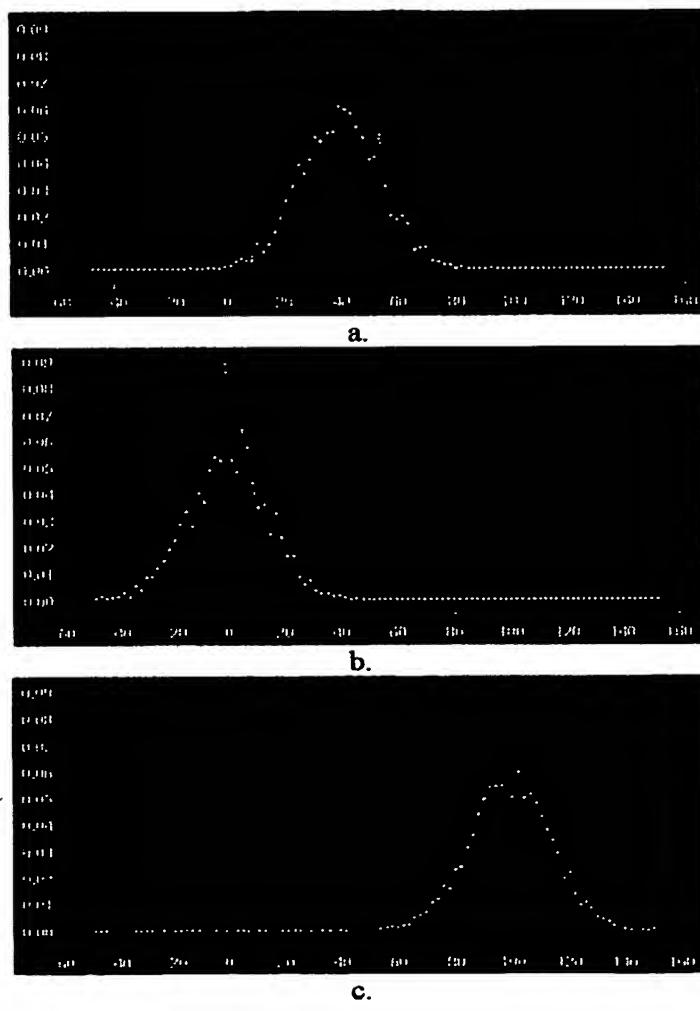


Figure 11: Probability densities after C_2 converges. a.) $P(v_j | d_j \in C_0)$. b.) $P(v_j | d_j \in C_1)$. c.) $P(v_j | d_j \in C_2)$.

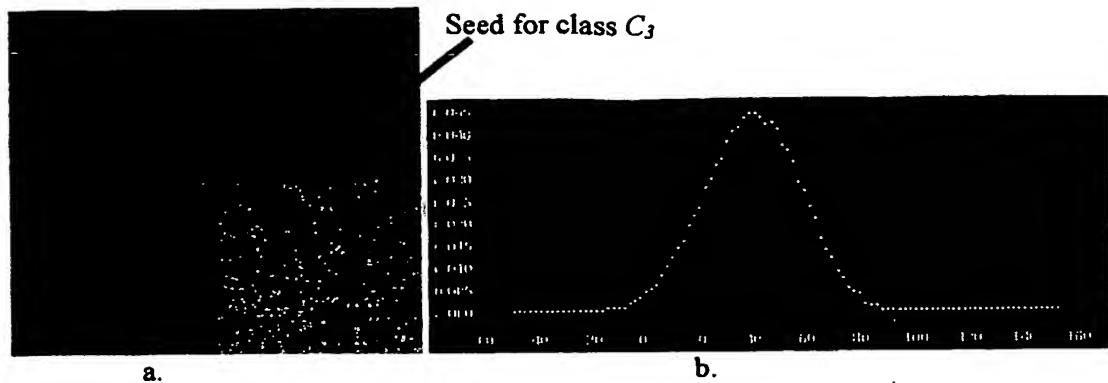


Figure 12: a.) Seed for Class C_3 . b.) Initial probability for $P(v_j | d_j \in C_3)$.

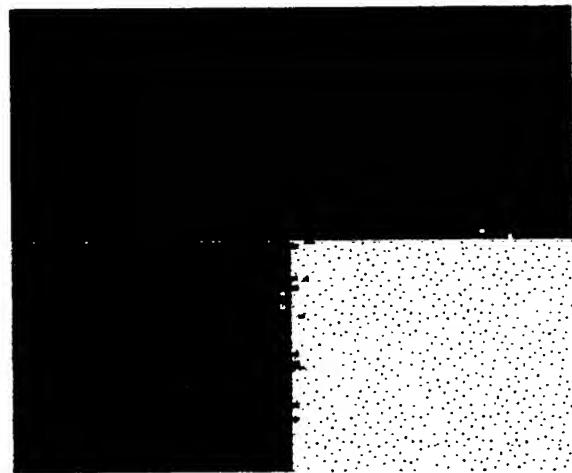


Figure 13: Final segmentation of synthetic data.

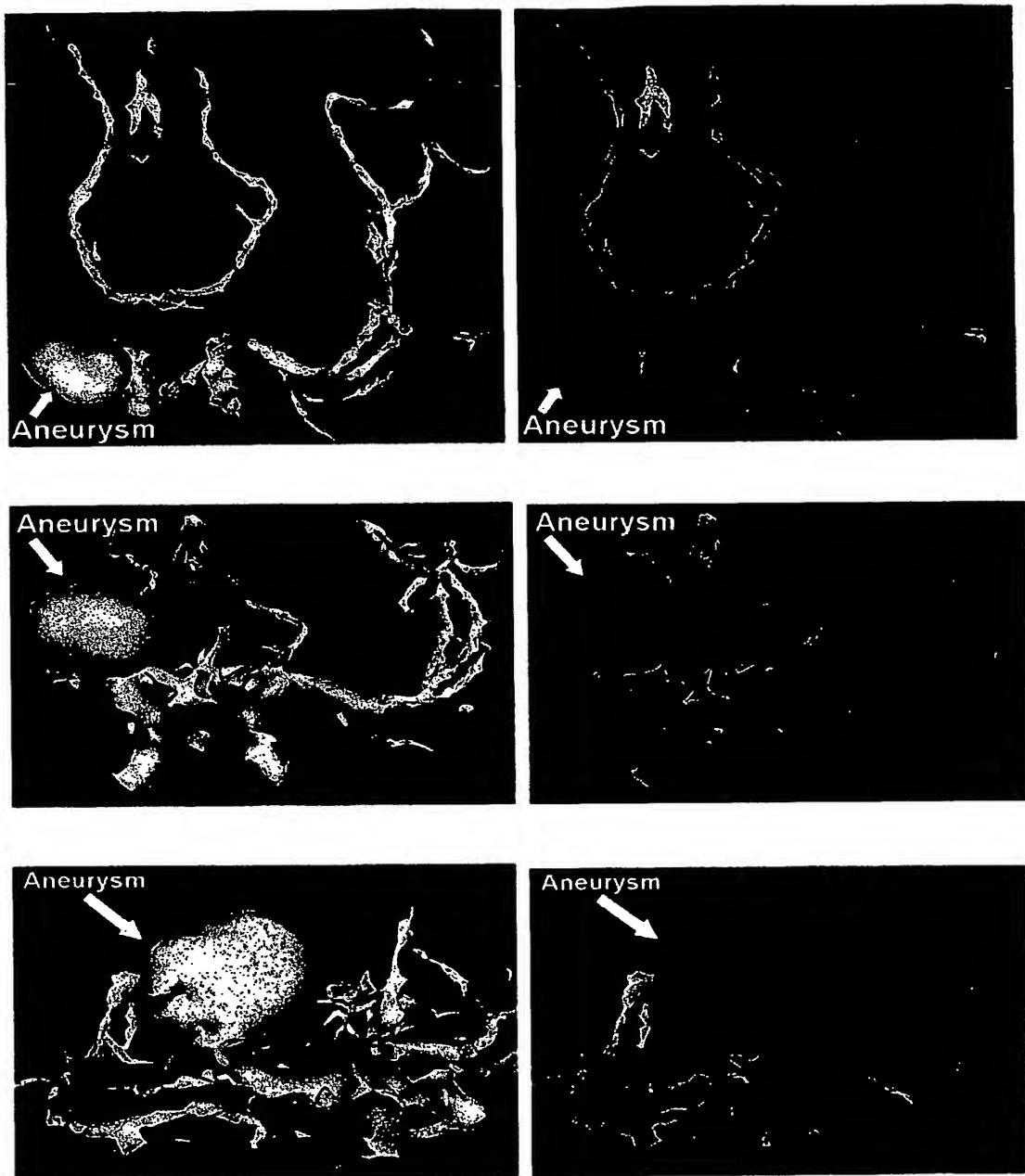


Figure 14: Results for patient 1. Original 3D model shown on left, processed data shown on right.

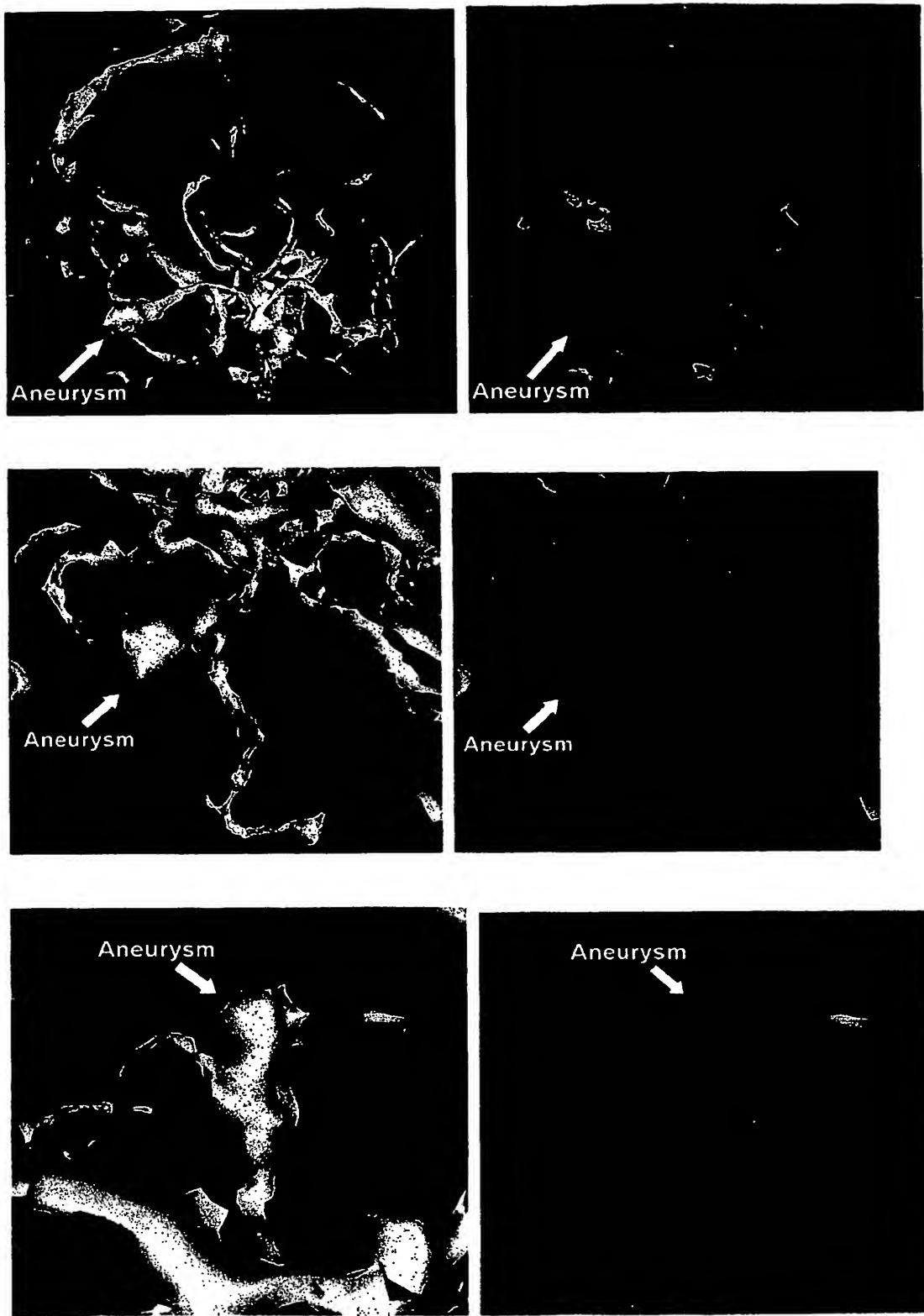


Figure 15: Results for patient 2. Original 3D model shown on left, processed data shown on right.

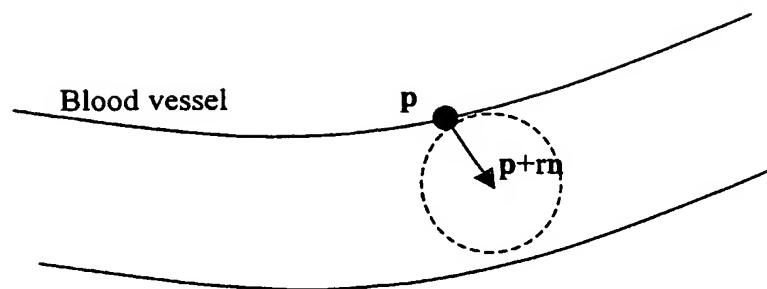


Figure 16A

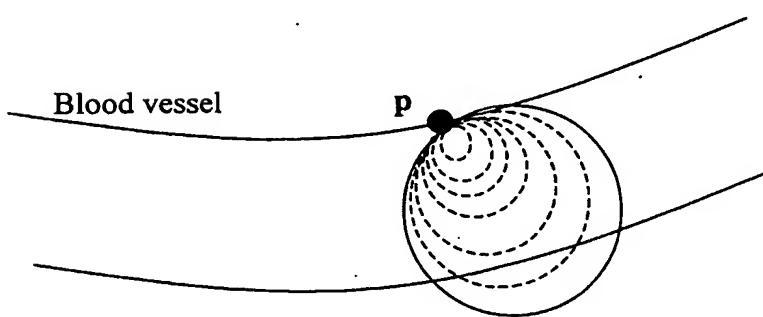


Figure 16B

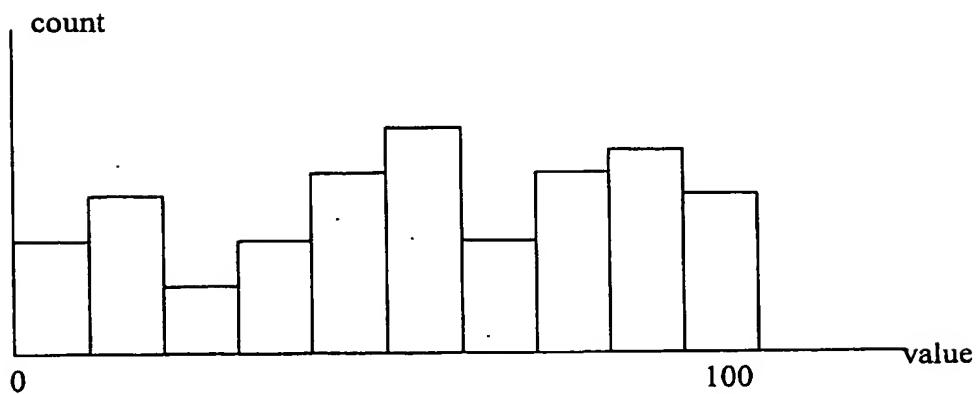


Figure 17

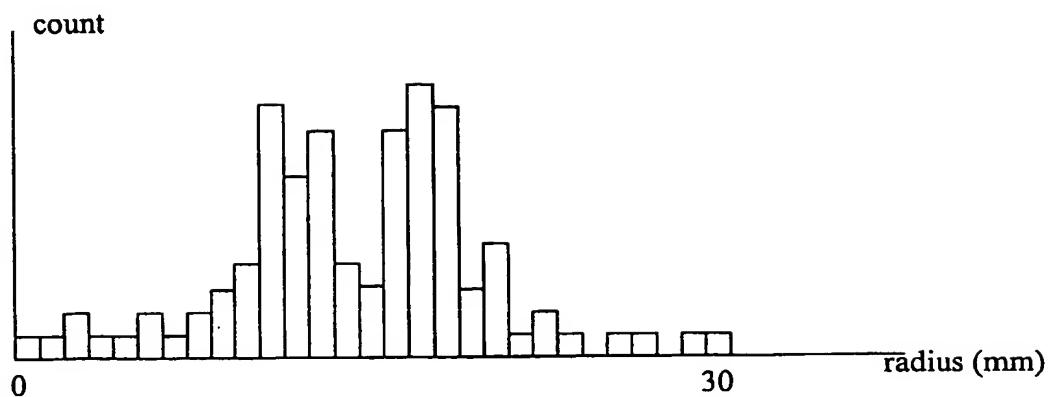
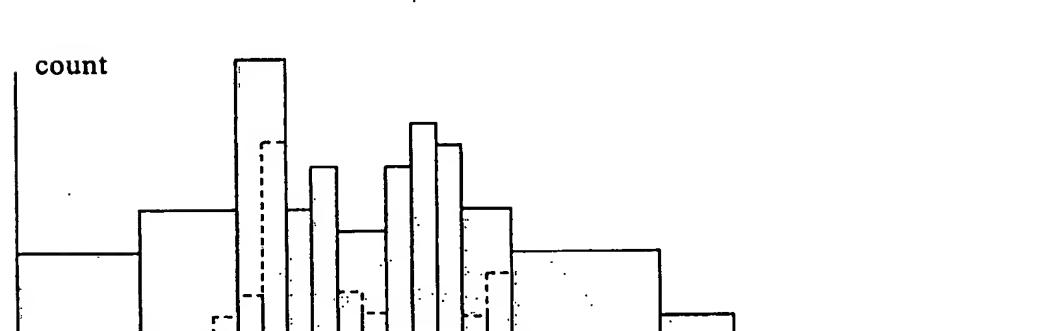


Figure 18



**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- BLACK BORDERS**
- IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- FADED TEXT OR DRAWING**
- BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- SKEWED/SLANTED IMAGES**
- COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- GRAY SCALE DOCUMENTS**
- LINES OR MARKS ON ORIGINAL DOCUMENT**
- REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.